To: Erickson, Russell[Erickson.Russell@epa.gov]

**From:** Peters, Emily (MPCA) **Sent:** Tue 2/18/2014 7:20:24 PM

Subject: anova results

hydroponic anova 20140218.docx

Russ,

I'm attaching a set of ANOVAs and an ANCOVA for the hydroponic data. My interpretation is that Treatment2 is marginally significantly different from the Control ONLY in the Range Finder Test. It is not significantly different from the Control in the D1 and D2 tests. When all three tests are pooled (for C, T1, T2), Treatment 2 is significantly different from the Control. Which of these analyses do you think is most appropriate/robust?

I'm not quite sure how to interpret the ANCOVA results. Mean sulfide is a significant model term, but how would we use this to determine if Treatment 2 is different from the Control? Should I add "treatment" as a factor in the model? That seems redundant???

-Emily

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